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U.S. Fluoroscopy Systems Market Size, Share & Trends Analysis Report By Product (Dedicated Urology Fluoroscopy Tables, Fixed Multipurpose Fluoroscopy for Urology), By Application, By End Use, And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. fluoroscopy systems market size was estimated at USD 163.3 million in 2025 and is projected to reach USD 217.5 million by 2033, growing at a CAGR of 4.2% from 2026 to 2033. This robust growth is driven by the increasing demand for real-time and accurate imaging in diagnostic and interventional procedures.

Healthcare providers are focusing more on precision-based treatments, especially in areas such as cardiology, orthopedics, and gastroenterology, where fluoroscopy plays a critical role. The growing preference for minimally invasive procedures is further boosting the adoption of fluoroscopy systems, as these technologies enable better visualization and improved patient outcomes with shorter recovery times. The rising prevalence of kidney and urinary tract diseases plays critical role in the growth of U.S. fluoroscopy systems market. Fluoroscopy provides real-time visualization during minimally invasive procedures, allowing physicians to guide catheters, stents, and other instruments with precision. As chronic kidney disease and urinary disorders continue to affect a significant portion of the U.S. population, healthcare facilities increasingly depend on fluoroscopy systems to support safe and efficient interventions. According to the Centers for Disease Control and Prevention (CDC) report “Chronic Kidney Disease in the United States, 2023,” published in May 2024, more than 1 in 7 U.S. adults (about 35.5 million people) are estimated to have chronic kidney disease, highlighting a significant and growing healthcare burden. The CDC also notes that many individuals remain undiagnosed, increasing the need for early detection and image-guided clinical interventions. This rising disease prevalence supports growing demand for advanced

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diagnostic and treatment technologies, including fluoroscopy systems used in minimally invasive kidney and urinary tract procedures.

In urology specifically, fluoroscopy is widely used in minimally invasive procedures for kidney stones, urinary obstructions, and related disorders. Kidney stones are a common condition requiring imaging guidance for treatment planning and intervention, and NIDDK notes that about 11% of men and 6% of women in the U.S. experience kidney stones at least once during their lifetime. Fluoroscopy helps urologists visualize the urinary tract in real time during procedures such as ureteroscopy and stent placement, enabling precise instrument navigation while reducing procedural complexity. As the incidence of these conditions rises, the use of fluoroscopy in routine urology practice continues to expand.

Another important factor is that urologic diseases increasingly require efficient, minimally invasive treatment approaches where fluoroscopy plays a central role. Clinical guidance from professional urology organizations emphasizes optimized fluoroscopy use during surgery to improve outcomes while managing radiation exposure, reflecting how essential fluoroscopic guidance has become in modern urologic workflows. Real-time imaging allows physicians to reduce surgical trauma and procedure time, which is particularly valuable for complex kidney and urinary tract interventions. This growing procedural reliance directly supports demand for advanced fluoroscopy systems tailored for urology settings.

Recent population estimates also show a continuing rise in the older age group, reinforcing long-term demand for imaging systems that support efficient and precise treatment workflows. According to a Pew Research Center report published in January 2024, the U.S. centenarian population (people aged 100 and older) is projected to grow from about 101,000 in 2024 to nearly 422,000 by 2054, highlighting a significant long-term demographic shift toward an older population. This trend reflects broader aging dynamics in the U.S., where the number of adults aged 65 and above is also expected to rise substantially over the coming decades. This growing elderly population increases demand for healthcare services, including minimally invasive and image-guided procedures supported by technologies such as fluoroscopy.

U.S. Fluoroscopy Systems Market Report Segmentation

This report forecasts revenue growth at country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. fluoroscopy systems market report

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based on product, application, and end use.

- Product Outlook (Revenue, USD Million, 2021 - 2033)
  - Dedicated urology fluoroscopy tables
  - Fixed multipurpose fluoroscopy for Urology
- Application Outlook (Revenue, USD Million, 2021 - 2033)
  - Upper Urinary Tract Imaging & Diagnostics
  - Endourology & Stone Management Procedures
  - Lower Urinary Tract Studies
  - Interventional Urology
  - Post-operative/Follow-up Fluoroscopic Assessments
- End Use Outlook (Revenue, USD Million, 2021 - 2033)
  - Hospitals
    - Not-for-Profit
    - For Profit
  - Specialty Centers
  - Ambulatory/Outpatient Centers
  - Others

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